

## INTERNATIONAL SEARCH REPORT

International Application No

EP 03/03691

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C07C2/32

Rec'd PCT/PTO 01 OCT 2004

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 537 609 A (ETHYL CORP) 21 April 1993 (1993-04-21) cited in the application page 2, line 1 - line 4 page 3, line 41 - page 5, line 10 table 1 claims ---	1-7
A	DE 199 43 544 A (BASF AG) 15 March 2001 (2001-03-15) page 2, line 1 - line 23 page 5, line 31 - line 35 ---	1-7

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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Date of the actual completion of the international search

Date of mailing of the international search report

19 August 2003

29/08/2003

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

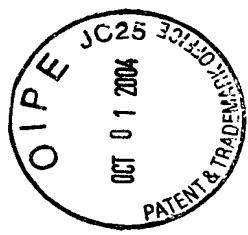
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	TANI ET AL: "Preparation of alpha.-olefin polymers by the use of vanadium or chromium complex catalysts" STN CAPLUS, XX, XX, vol. 129, no. 18, 2 November 1998 (1998-11-02), XP002139725 abstract -----	1-7
A	EP 0 531 174 A (MITSUI PETROCHEMICAL IND) 10 March 1993 (1993-03-10) page 2, line 40 - line 50 example 1 -----	1-7

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EP 03/03691

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0537609	A	21-04-1993	CA DE DE EP JP JP US US US US	2079399 A1 69212761 D1 69212761 T2 0537609 A2 3217500 B2 5221882 A 5968866 A 5550305 A 5811618 A 5744677 A		17-04-1993 19-09-1996 02-01-1997 21-04-1993 09-10-2001 31-08-1993 19-10-1999 27-08-1996 22-09-1998 28-04-1998
DE 19943544	A	15-03-2001	DE CN WO EP JP	19943544 A1 1348458 T 0058319 A1 1171445 A1 2002539945 T		15-03-2001 08-05-2002 05-10-2000 16-01-2002 26-11-2002
EP 0531174	A	10-03-1993	JP DE DE EP US	6254402 A 69203054 D1 69203054 T2 0531174 A2 5286695 A		13-09-1994 27-07-1995 16-11-1995 10-03-1993 15-02-1994



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